

REMARKS

Claims 1-21 are pending in the present application. By this Amendment, claims 1-3 are amended and claims 4-21 are added. Support for the claims can be found throughout the specification, including the original claims and the drawings. Reconsideration in view of the above amendments and following remarks is respectfully requested.

The Office Action rejected claims 1-3 under 35 U.S.C. 102(b) as being anticipated by Jung, U.S. Patent No. 6,046,535. The rejection is respectfully traversed.

Jung discloses a shadow mask frame assembly including a mask frame 2. Jung's shadow mask is a no tension mask, known as a formed mask, in which both long and short sides, more accurately a skirt portion, are welded to a frame. As is well known, the formed mask generally pairs with a continuous frame, such as that disclosed by Jung (mask frame 2), and is not inherently stretched by the continuous frame. Further, there is no disclosure in Jung that tension is provided for the formed mask.

More particularly, the mask frame 2 of Jung includes planar perpendicular portions 14 formed at a lower part. The planar perpendicular portions 14 extend parallel to an axial direction of the cathode ray tube. A border of a skirt portion 12 of the shadow mask 8 is welded to the perpendicular portions 14. Jung teaches providing a bead 4 or a burring 6 at predetermined positions to reinforce the mechanical intensity of the mask frame 2. Further, the skirt portion 12 of the shadow mask 8 includes seven notches 16 uniformly spaced from each other on its long side and five notches 16 at least on its short side. The notches 16 dispense

cohesion forces generated during extrusion of the skirt portion, preventing the formation of wrinkles. See Figures 1 and 2 of Jung.

However, independent claims 1 and 2 recite a tension mask tensioned by at least one sub-frame and mainframes welded to the tension mask. As discussed above, Jung does not disclose such features. Rather, Jung discloses a formed mask 8 paired with a continuous mask frame 2. Further, because the mask frame 2 is continuous, Jung could not possibly disclose or suggest, and Jung's device could not possibly satisfy the equations recited in independent claims 1 and 2, which define a specific relationship between a width of the middle portion and end portions of the lower plane of the main frames. Furthermore, Jung makes no mention of the width or shape of the lower extension of the mask frame 2. According, the rejection of independent claims 1 and 2 over Jung should be withdrawn.


Dependent claim 3, as well as added dependent claims 4-11, are allowable at least for the reasons discussed above with respect to independent claim 2, from which they respectively depend, as well as for their added features. More particularly, Jung does not disclose or suggest the support recited in claim 3, or the specific relationship defined by the equation of claim 3. With respect to claims 5 and 9, Jung does not disclose or suggest, in combination with the other claims features, main frames welded to at least one subframe. With respect to claims 6 and 10, Jung does not disclose or suggest, in combination with the other claims features, a lower plane in the shape of one of curved, rounded, rectangular, triangular, or any combination thereof.

Added claims 12-21 are also allowable over the applied prior art.

In view of the foregoing amendments and remarks, it is respectfully submitted that the application is in condition for allowance. If the Examiner believes that any additional changes would place the application in better condition for allowance, the Examiner is invited to contact the undersigned attorney, Carol L. Druzbeck, at the telephone number listed below. Favorable consideration and prompt allowance are earnestly solicited.

To the extent necessary, a petition for an extension of time under 37 C.F.R. 1.136 is hereby made. Please charge any shortage in fees due in connection with the filing of this, concurrent and future replies, including extension of time fees, to Deposit Account 16-0607 and please credit any excess fees to such deposit account.

Respectfully submitted,
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